Bangladesh University of Professionals
Mirpur Cantonment, Dhaka – 1216
Admission Test for BBA Program (Session: 2013 -2014)

| Total Time: 100 minutes | Total Pages: 21 | Total Marks: 100 |

Section – 1
English Language and Communication
(30 MCQs, 30 Marks)

Part – I: Reading Comprehension

Directions: Read the passage carefully and answer Questions 1 through 5 in light of it.

Organizations are institutions in which members compete for status and power. They compete for the resources of the organization, for example, finance to expand their own departments, for career advancement and for power to control the activities of others. In pursuit of these aims, groups are formed and sectional interests emerge. As a result, policy decisions may serve the ends of the political and career system rather than those of the concern. In this way, the goals of the organization may be displaced in favor of sectional interest and individual ambition. These preoccupations sometimes prevent the emergence of organic systems (a system which is used by a company that seeks self development as a way to expand rather than purchasing another company).

Many of electronic firms in their study had recently created research and development departments employing highly qualified and well paid scientists and technicians. Their high pay and expert knowledge were sometimes seen as a threat to the established order and rank, power and privilege. Many senior managers had little knowledge of the technicalities and possibilities of new developments and electronics. Some felt that, close co-operation with the experts in an organic system would reveal their ignorance and show that their experience is now redundant.

1. The author makes out a case for-
   A. research and development in organizations
   B. a refresher course for senior managers
   C. an understanding between senior and middle level executives
   D. organic system
   E. finding out the redundancy of experience senior managers

2. The author tends to see the senior managers as-
   A. ignorant and incompetent
   B. jealous of their younger colleagues
   C. a little out of step with their work environment
   D. robbed of their rank, power and privilege
   E. chaos creator and resource consumers

3. Organic system is related to the organization implies its-
   A. natural and unimpeded growth
   B. growth with inputs from science and technology
   C. growth with the help of expert knowledge
   D. steady, all round development
   E. growth through the experience of senior management

4. Policy decisions in an organization supporting organic system would involve-

A. modernization of the organization

B. co-operation at all levels in the organization

C. attracting highly qualified and technical personnel

D. keeping in view the larger objective of the organization

E. sacking corrupted senior managers

5.   Absence of organic system would ignite-

A. sectional interest

B. abuse of financial resources

C. employment of ill-qualified personnel

D. abuse of official position

E. all of the above

Part – II: Synonyms

Directions: In questions 6 through 10, indicate from the given choices, which has the similar meaning of the word in **CAPITAL.**

6.   ABHORE

A. Aborigine

B. Hate

C. Abnormal

D. Admire

E. Kind

7.   ASTUTE

A. Sheer

B. Noisy

C. Astral

D. Unusual

E. Clever

8.   CLANDESTINE

A. Secret

B. Conglomerate

C. Dearth

D. Candlelight

E. Destiny

9.   AFFLUENCE

A. Fluent

B. Affinity

C. Wealth

D. Acute

E. Suffrage

10. TRACTABLE
   A. Distraught
   B. Docile
   C. Irritating
   D. Ruthless
   E. Lazy

Part – III: Antonyms

Directions: In questions 11 through 15, indicate from the given choices, which one has an opposite meaning of the word in **CAPITAL.**

11. AMASS
   A. Invent
   B. Sustain
   C. Disperse
   D. Animate
   E. Tolerate

12. PROFANE
   A. Arrogant
   B. Benign
   C. Respectful
   D. Pious
   E. Virtuous

13. CENSURE
   A. Census.
   B. Enclose.
   C. Praise.
   D. Penetrate.
   E. Process.

14. SPURIOUS
   A. Speculative
   B. Malignant
   C. Super
   D. Authentic
   E. Callous

15. NEFARIOUS
   A. Virtuous.
   B. Pedestrian.
   C. Sordid.
   D. Resourceful.
   E. Oil.

Part – IV: Analogy Test

Directions: Carefully notice the relationship between the words in CAPITAL letters in each question numbered 16 through 20. Choose from answers the pair whose relationship most resembles with it.

16. SILO: CORN
    A. Vault: Valuables.
    B. Wheat: Husk
    C. Shoe: Leather.
    D. Mineral: Iron.
    E. Grain: Oil.

17. TEACHER: IGNORANCE
    A. Stream: River
    B. Light: Darkness
    C. Wattage: Bulb
    D. Lightning: Electricity
    E. Student: Study

18. WOODPILE: LOGS
    A. Forest: Trees
    B. Husk: Corn
    C. Mist: Rain
    D. Bouquet: Flowers
    E. Drift: Snow

19. DEGREE: TEMPERATURE
    A. Ounce: Weight
    B. Fathom: Volume
    C. Mass: Energy
    D. Time: Length
    E. Light: Heat

20. ROBIN: NEST
    A. Animal: Cave
    B. Horse: Stall
    C. Alligator: Swamp
    D. Clam: Shell
    E. Rabbit: Burrow

Part – V: Sentence Correction

Directions: The questions numbered 21 through 30 consist of number of sentences, in each of which some part or the whole is underlined. Each sentence is followed by five alternative versions of the underlined portion. Select an alternative you consider both most correct and most effective according to the requirements of standard written English. Answer "A" is the same as the original version; if you think the original version is the best, select answer "A". In considering the answer choices, be attentive to matters of grammar, diction, and syntax, as well as clarity, precision, and fluency. Do not select an answer, which alters the meaning of original sentence.

21. The call center executive was asked to talk nicely, clearly, and in a detailed manner.
    A. The call center executive was asked to talk nicely, clearly, and in a detailed manner.
    B. The call center executive was asked to talk nicely, clearly, and thoroughly
    C. The call center executive was asked, talk nicely, talk clearly, and talk in a detailed manner
    D. The call center executives were asked, talk nicely, talk clearly, and talk in a detailed manner
    E. The cal center executive was asked to talk nicely and clearly

22. Unless they reverse present policies immediately, the world may suffer permanent damage from the unregulated use of pesticides.
    A. Unless they reverse present policies
    B. Unless present policies are reversed
    C. Unless present policies will be reversed
    D. If it will not reverse present policies
    E. If present policies will not be reversed

23. Water and resource management problems will be at the head of the legislature's list of concerns for the coming session.
    A. Water and resource management problems
    B. Problems of managing water and resources
    C. Problems in the management of water and other resources
    D. Problems of water and other resource management
    E. Resource management problems, including water.

24. The principal has sought approval for her plan to grant promotions to only those seventh-grade students proficient in reading without meeting with opposition.
    A. reading without meeting with opposition
    B. reading, having met with no opposition
    C. reading, without the opposition of others
    D. reading, and has not met with opposition
    E. reading without opposition

25. In the most common procedure for harvesting forage crops such as alfalfa, as much as 20 percent of the leaf and small-stem material, which is the most nutritious of all the parts of the plant, shattered and fell to the ground.
    A. which is the most nutritious of all the parts of the plant, shattered and fell
    B. the most nutritious of all parts of the plant, shatter and fall
    C. the parts of the plant which were most nutritious, will shatter and fall

D. the most nutritious parts of the plant, shatters and falls

E. parts of the plant which are the most nutritious, have shattered and fallen

26. Carnivorous mammals can endure what would otherwise be a lethal level of body heat because they have a heat-exchange network <u>which kept</u> the brain from getting too hot.

    A. which kept

    B. that keeps

    C. which has kept

    D. that has been keeping

    E. having kept

27. Management is considering a policy requiring employees <u>provide doctors' notes after taking sick leave so as to</u> prove fitness to return to work.

    A. provide doctors' notes after taking sick leave so as to

    B. to provide doctors' notes after taking sick leave so as to

    C. provide doctors' notes after taking sick leave in order that they

    D. to provide doctors' notes after taking sick leave so that the employees can

    E. provide doctors' notes after taking sick leave and

28. No one but <u>him could have told them that the thief was I</u>.

    A. him could have told them that the thief was I

    B. he could have told them that the thief was I

    C. he could have told them that the thief was me

    D. him could have told them that the thief was me

    E. he could have told them the thief was I

29. Although the term "psychopath" is popularly applied to an especially brutal criminal, in psychology <u>it is someone who is</u> apparently incapable of thinking straight.

    A. it is someone who is

    B. it is a person

    C. they are people who are

    D. it refers to someone who is

    E. it is in reference to people

30. As a result of medical advances, many people <u>that might at once time have died as children</u> of such infections as diphtheria, pneumonia, or rheumatic fever now live well into old age.

    A. that might at once time have died as children

    B. who might once have died in childhood

    C. that as children might have at one time died

    D. who in childhood might have at one time died

    E. who, when they were children, might at one time have died
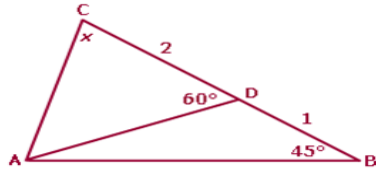
31. If a man can swim downstream at 6 km/hr and upstream at 2 km/hr, his speed in still water is:
    A. 1.5 km/hr
    B. 2 km/hr
    C. 4 km/hr
    D. 6 km/hr
    E. None.

32. What is the absolute value of twice the difference of the roots of the equation $5y^2 - 20y + 15 = 0$?
    A. 0
    B. 1
    C. 2
    D. 3
    E. 4

33. It takes one machine 4 hours to complete a production order and another machine 3 hours to complete the same order. How many hours would it take when both machines are working simultaneously at their respective rates to complete the order?
    A. 7/12
    B. 3/2
    C. 12/7
    D. 7/2
    E. 7

34. An engineer designed a ball so that when it was dropped, it rose with each bounce exactly one-half as high as it had fallen. The engineer dropped the ball from a 16-meter platform and caught it after it had traveled 46.5 meters. How many times did the ball bounce?
    A. 5
    B. 6
    C. 7
    D. 8
    E. 9

35. Rectangular floors X and Y have equal area. If floor X is 12 feet by 18 feet and floor Y is 9 feet wide, what is the length of floor Y, in feet?
    A. 13.5
    B. 18
    C. 18.75
    D. 21
    E. 24

36. Kamal and Jamal pay 30% and 40% tax annually, respectively. If Kamal's income is TK. 56000 and Jamal's income is TK. 72000 annually, what is their combined tax rate?
    A. 32%
    B. 34.4%

C. 35%

D. 35.6%

E. 36.4%

37. Which of the following is greater than 2/3?

    A. 33/50

    B. 8/11

    C. 3/5

    D. 13/27

    E. 5/8

38. The average age of a group of 5 members is 20 years. Two years later, a new member joins the group. The average age of the group becomes 22 years. What is the age of the new member?

    A. 20 years

    B. 21 years

    C. 22 years

    D. 23 years

    E. 24 years

39. If $\dfrac{2}{1+\frac{2}{y}}=1$, then y =?

    A. -2

    B. -1/2

    C. 1/2

    D. 2

    E. 3

40. When $\dfrac{1}{10}$ percent of 5,000 is subtracted from $\dfrac{1}{10}$ of 5,000 the difference is:

    A. 0

    B. 50

    C. 450

    D. 495

    E. 500

41. What is the area of a triangle created by the intersections of the lines x = 4, y = 5 and y = −(3/4)x+20

    A. 42

    B. 54

    C. 66

    D. 72

    E. 96

42. A basket contains 5 apples, of which 1 is spoiled and the rest are good. If Henry is to select 2 apples from the basket simultaneously and at random, what is the possibility that the 2 apples selected will include the spoiled apple?

    A. 1/5

    B. 3/10

    C. 2/5

D. ½

E. 3/5

43. BUP cafeteria opened yesterday with its daily supply of 40 dozens rolls. Half of the rolls were sold by noon, and 80 percent of the remaining rolls were sold between noon and closing time. How many dozen rolls had not been sold when the bakery closed yesterday?

    A. 16

    B. 20

    C. 4

    D. 5

    E. 6

44. An absent minded scientist walks on an escalator at a rate of 4 steps per second and reaches the other end in 15 seconds. While coming back, walking at the same speed he reaches the starting point in 45 seconds. What is the number of steps on the escalator?

    A. 60

    B. 90

    C. 105

    D. 120

    E. 140

45. Points A and B are 120 km apart. A motorcyclist starts from A to B along straight road AB with speed 30 kmph. At the same time a cyclist starts from B along a road perpendicular to road AB, with a speed of 10 kmph. After how many hours will the distance between them be the least?

    A. 3 hours

    B. 3.4 hours

    C. 3.5 hours

    D. 3.6 hours

    E. None

46. A right cylindrical container with radius 2 meters and height 1 meter is filled to capacity with oil. How many empty right cylindrical cans, each with radius ½ meter and height 4 meters, can be filled to capacity with the oil in this container?

    A. 1

    B. 2

    C. 4

    D. 8

    E. 16

47. A box of balls originally contained 2 blue balls for every red ball. If after 12 red balls were added to the box, the ratio of red balls to blue balls became 5 to 2, how many balls were in the box before the additional 12 balls were added?

    A. 9

    B. 12

    C. 15

    D. 18

    E. 24

48.
If the quotient $\dfrac{a}{b}$ is positive, which of the following must be true?

    A. a>0
    B. b>0
    C. ab>0
    D. a-b>0
    E. a+b>0

49.   Last year Mrs. Long received $160 in dividends on her shares of Company X stock, all of which she had held for the entire year. If she had had 12 more shares of the stock last year, she would have received $15 more in total annual dividends. How many shares of the stock did she have last year?

    A. 128
    B. 140
    C. 172
    D. 175
    E. 200

50.   A certain elevator has a safe weight limit of 2,000 pounds. What is the greatest possible number of people who can safely ride on the elevator at one time with the average (arithmetic mean) weight of half the riders being 180 pounds and the average weight of the others being 215 pounds?

    A. 7
    B. 8
    C. 9
    D. 10
    E. 11

51.   The distance between two points is X. The number of inches in X is equal to the square root of the number of feet in X (1 foot =12 inches.) What is the length of X, in inches?

    A. 144
    B. 12
    C. 1
    D. 1/12
    E. 1/144

52.   How many liters of a mixture containing 80% alcohol should be added to 5 liters of a 20% solution to yield a 30% solution?

    A. 1
    B. 2
    C. 3
    D. 4
    E. 5

53.

In the figure, point D divides side BC of triangle ABC into segments BD and DC of lengths 1 and 2 units respectively. Given that ADC = 60° and ABD = 45°, what is the measure of angle x in degrees?

    A. 55
    B. 60
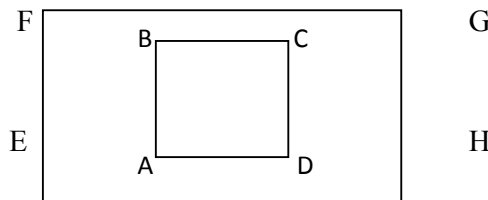   C. 70
    D. 75
    E. 90

54.   Rakhi and Mehjabin started a business and invested TK. 20,000 and TK. 25,000 respectively. After 4 months Mehjabin left and Sadia joined by investing Tk. 15,000. At the end of the year, there was a profit of TK. 4,600. What is the share of Sadia.

    A. TK. 1,000
    B. TK. 1,200
    C. TK. 1,500
    D. TK. 1,600
    E. TK. 1,800

55.   How many of the integers that satisfy the inequality $(x+2)(x+3) / (x-2) \geq 0$ are less than 5?

    A. 1
    B. 2
    C. 3
    D. 4
    E. 5

56.   ABCD is a square, EFGH is a rectangle. AB = 3, EF = 4, FG = 6. The area of the region outside of ABCD and inside EFGH is:
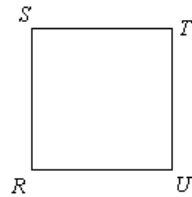

    A. 6
    B. 9
    C. 12
    D. 15
    E. 24

57.   What is the largest factor of both 6 and 9?

    A. 1
    B. 3
    C. 6
    D. 9
    E. 12

58. A rectangular floor is covered by a rug except for a strip p meters wide along each of the four edges. If the floor is m meters by n meters, what is the area of the rug, in square meters?

    A. $mn - p(m + n)$
    B. $mn - 2p(m + n)$
    C. $mn - p2$
    D. $(m - p)(n - p)$
    E. $(m - 2p)(n - 2p)$

59. If $-1 < x < 0$, which of the following must be true?

    I. $X^3 < x^2$
    II. $X^5 < 1 - x$
    III. $X^4 < x^2$

    A. I only
    B. I and II only
    C. II and III only
    D. I and III only
    E. I, II and III

60. BUP basketball team that has played 2/3 of its games has a record of 17 wins and 3 losses. What is the greatest number of the remaining games that the team can lose and still win at least 3/4 of all of its games?

    A. 7
    B. 6
    C. 5
    D. 4
    E. 3

61. At a certain conference, 72% of the attendees registered at least two weeks in advance and paid their conference fee in full. If 10% of the attendees who paid their conference fee in full did not register at least two weeks in advance, what percent of conference attendees registered at least two weeks in advance?

    A. 18.0%
    B. 62.0%
    C. 79.2%
    D. 80.0%
    E. 82.0%

62. Dan and Karen, who live 10 miles apart, meet at a cafe that is directly north of Dan's house and directly east of Karen's house. If the cafe is 2 miles closer to Dan's house than to Karen's house, how many miles is the cafe from Karen's house?

    A. 6
    B. 7
    C. 8
    D. 9
    E. 10

63.

56. Square *RSTU* shown above is rotated in a plane about its center in a clockwise direction. The number of degrees through which *RSTU* is rotated for T to be in the position of S is:

    A. 135º
    B. 180º
    C. 225º
    D. 270º
    E. 315º

64.   In traveling from a dormitory to a certain city, a student went 1/5 of the way by foot, 2/3 of the way by bus, and the remaining 8 kilometers by car. What is the distance, in kilometers, from the dormitory to the city?

    A. 30
    B. 45
    C. 60
    D. 90
    E. 120

65.   According to a survey, at least 70% of people like apples, at least 75% like bananas and at least 80% like cherries. What is the minimum percentage of people who like all three?

    A. 15%
    B. 20%
    C. 25%
    D. 0%
    E. 35%

66.   If $4x-12 \geq x + 9$, which of the following must be true

    A. $x > 6$
    B. $x < 7$
    C. $x > 7$
    D. $x > 8$
    E. $x < 8$

67.   After paying a 10 percent tax on all income over $3,000, a person had a net income of $12,000. What was the income before taxes?

    A. $13,300
    B. $13,000
    C. $12,900
    D. $10,000
    E. $9,000

68.   If 0.497 mark has the value of one dollar, what is the value to the nearest dollar of 350 marks?

    A. $174
    B. $176
    C. $524

D. $696

E. $704

69. In an examination 42% student failed in Bangla and 52% failed in English. If 17% failed in both the subjects, the percentage of those who passed in both the subjects is:

    A. 23

    B. 27

    C. 34

    D. 40

    E. 50

70. For which of the following values of x is $\sqrt{1-\sqrt{2-\sqrt{x}}}$ NOT defined as a real number?

    A. 1

    B. 2

    C. 3

    D. 4

    E. 5

Section – 3
General Aptitude
(10 MCQs and 2 Analytical Writing Questions, 30 Marks)

Part – 1: Data Sufficiency:

Directions: Each of the following problems numbered 71 through 75, has a question and two statements which are labeled as "(1)" and "(2)". Use the data given at "(1)" and "(2)" together with the other available information (such as the number of hours in a day, the definition of clockwise, mathematical facts etc.) to decide whether the statements are sufficient to answer the question. Then fill in the space at your OMR sheet –

A. If you can get the answer from **"(1)" ALONE** but not from "(2)" alone

B. If you can get the answer from **"(2)" ALONE** but not from "(1)" alone

C. If you can get the answer from **BOTH "(1)" and "(2)" TOGETHER**, but not from "(1)" alone or "(2)" alone

D. If **EITHER** statement **"(1)" ALONE** or statement **"(2)" ALONE** suffices

E. If you **CANNOT** get the answer from statement "(1)" and "(2)" **TOGETHER** and need even more data

71.	Who types at a faster rate, John or Bob?
	(1) The difference between their typing rates is 10 words per minute.
	(2) Bob types at a constant rate of 80 words per minute.
72.	Did Sammy drive more than 21 kilometers last night?
	(1) Sammy drove more than 20,000 meters last night. (2) Sammy drove less than 20,500 meters last night.

73.	What percent of the drama club members enrolled at a certain school are female students?
	(1) Of the female students enrolled at the school, 40 percent are members of the drama club.
	(2) Of the male students enrolled at the school, 25 percent are members of the drama club.
74.	If x is a positive number, is x an even integer?
	(1) 3x is an even integer.
	(2) 5x is an even integer.
75.	How many people are directors of both Company K and Company R?
	(1) There were 17 directors present at a joint meeting of the directors of Company K and Company R, and no directors were absent.
	(2) Company K has 12 directors and Company R has 8 directors.

Part – II: Critical Reasoning

Directions: For the following questions, numbered 76 through 80, choose the best answer among the listed alternatives:

76.	Most employees in the computer industry move from company to company, changing jobs several times in their careers. However, Summit Computers is known throughout the industry for retaining its employees. Summit credits its success in retaining employees to its informal, nonhierarchical work environment.
	Which of the following, if true, most strongly supports Summit's explanation of its success in retaining employees?
	A. Some people employed in the computer industry change jobs if they become bored with their current projects.
	B. A hierarchical work environment hinders the cooperative exchange of ideas that computer industry employees consider necessary for their work.
	C. Many of Summit's senior employees had previously worked at only one other computer company.
	D. In a nonhierarchical work environment, people avoid behavior that might threaten group harmony and thus avoid discussing with their colleagues any dissatisfaction they might have with their jobs.
	E. The cost of living near Summit is relatively low compared to areas in which some other computer companies are located.
77.	All elephants are gray.
	And all mice are gray.
	Therefore, I conclude that all elephants are mice.
	The argument above is invalid because
	A. The writer bases her argument on another argument that contains circular reasoning.
	B. The writer has illogically classified two disparate groups together when there is no relationship between them, except that they both have the same attribute.
	C. The writer has made a mistaken analogy between two dissimilar qualities.

	D. The writer has used a fallacy which involves the ambiguous description of animals by their color. E. The writer has failed to express her reasoning fully.

78.	Most employees in the computer industry move from company to company, changing jobs several times in their careers. However, Summit Computers is known throughout the industry for retaining its employees. Summit credits its success in retaining employees to its informal, nonhierarchical work environment.
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	    D. In a nonhierarchical work environment, people avoid behavior that might threaten group harmony and thus avoid discussing with their colleagues any dissatisfaction they might have with their jobs.
	    E. The cost of living near Summit is relatively low compared to areas in which some other computer companies are located.

79.	Researchers have noticed that people whose blood shows abnormally low levels of calcium usually have laryngeal polyps, which can permanently damage vocal cords and result in partial or even total loss of voice. In order to prevent the polyps, the researchers recommend a diet high in calcium-rich foods such as dairy and green, leafy vegetables.
	Which of the following, if true, most strongly suggests that it would not be advisable to follow the researchers'
	    A. Dairy contains compounds that are difficult for many people to digest.
	    B. Laryngeal polyps sometimes disappear without treatment.
	    C. Laryngeal polyps cause a change in body chemistry that blocks the absorption of calcium.
	    D. Fresh vegetables are not always available in all seasons.
	    E. Low levels of calcium can sometime be remedied with vitamin pills.

80.	In order to increase revenues, a cell-phone company has decided to change its fee structure. Instead of charging a flat rate of $20 per month and $0.50 for every minute over 200 minutes, the company will now charge $50 per month for unlimited usage.
	Which of the following is a consideration that, if true, suggests that the new plan will not actually increase the company's revenues?
	    A. Rival-company, which charges no start-up fee , offers an unlimited calling plan for $40 per month.
	    B. Two-thirds of the company's customers use less than 500 minutes per month.
	    C. Studies have shown that customers using unlimited calling plans will increase their monthly usage of minutes by over 50 percent.
	    D. One-fifth of the company's customers use in excess of 1,000 minutes per month.
	    E. In recent months the company has received several complaints of insufficient signal strength and poor customer service.

Part – III: Analytical Writing (2 questions, 20 Marks)
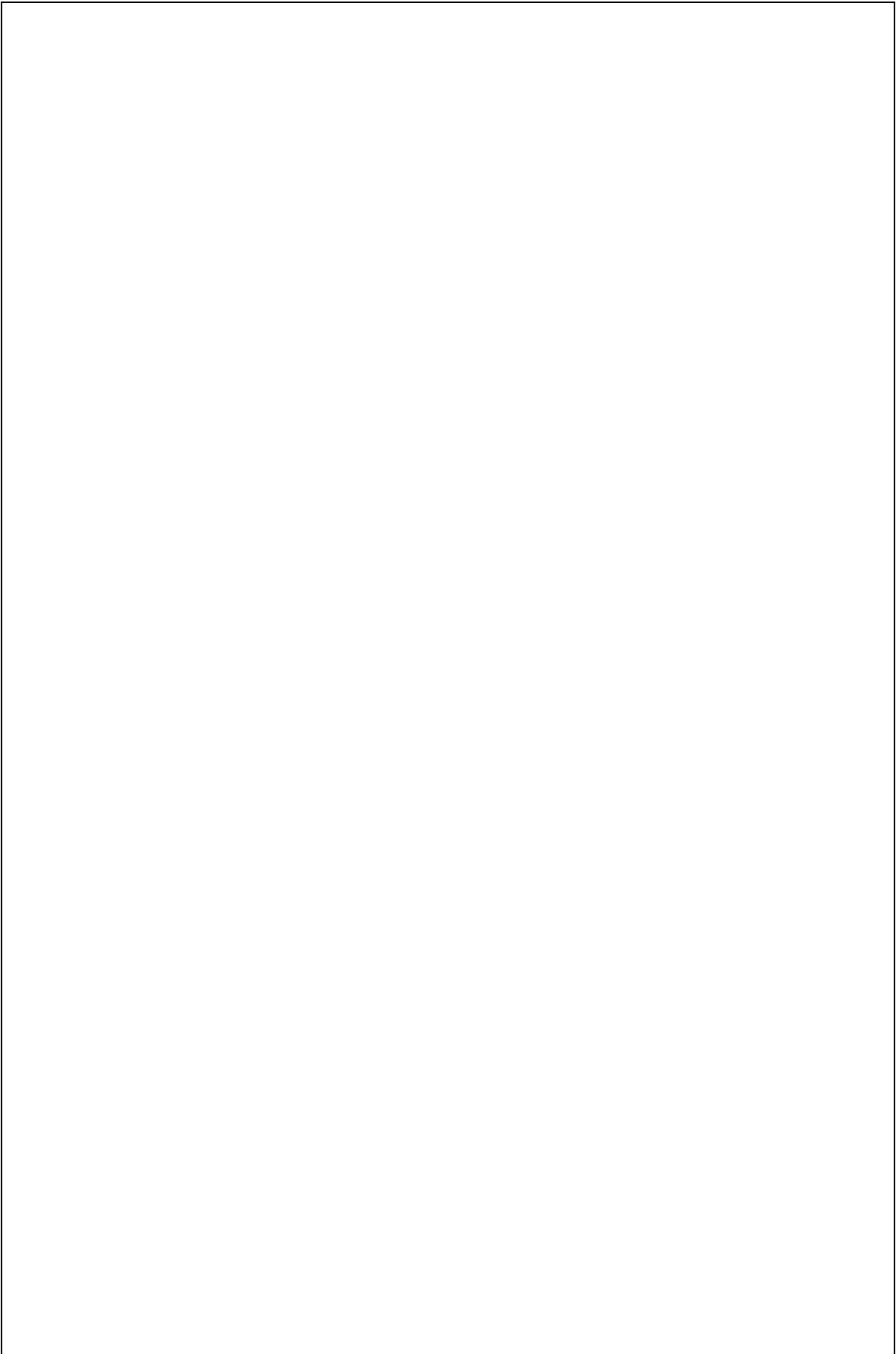<u>Direction:</u> Answer questions 81 and 82 in the given space provided after each question. You have to accommodate within the given space and **no extra paper would be given.**

81. Analysis of an Issue

Directions: In this question, you need to analyze the issue presented and explain your views on it. There is no correct answer. Instead, you should consider various perspectives as you develop your own position on the issue.

"Some economists mention that Bangladesh should export Hilsa fish to the overseas market to earn foreign currency and also to develop good international relationship. Some others along with general people claim that the country should not export Hilsa fish. This group believes if Bangladesh exports Hilsa fish local people won't be able to buy the fish."

Discuss both these views and give your own opinion. Support your opinions / views with reasons and / or examples from your own experience observation or reading.

82. **Analysis of an argument**

Direction: In this question, you are asked to write a critique of the argument presented below.

"Bangladesh is corrupted to the bone, yet it is gaining a certain level of development from economical and financial perspectives. Hence, Bangladesh should continue with such corruption."

Discuss how well reasoned you find this argument. In your discussion, be sure to analyze the line of reasoning and the use of evidence in the argument. For example: you may need to consider what questionable assumptions underlie the thinking and what alternative explanations or counterexamples might weaken the conclusion. You can also discuss what sort of evidence would strengthen or refute the argument, what changes in the argument would make it logically sound and what, if anything, would help you to evaluate the conclusion in a better manner.